

TSYPKIN, I.V.

Mesothelioma of the epididymis. Urologia 27 no.4:65 J1-Ag '62.
(MIRA 15:11)

1. Iz urologicheskogo otdeleniya (zav. I.V. TSypkin) Rizhskoy
dorozhnoy bol'nitsy.
(EPIDEDYMIS—TUMORS)

TSYPKIN, K., polkovnik; PAKHOMOV, V., polkovnik.

Selfless action of combat engineers in fighting a flood. Voen.-inzh.
zhur. 101 no.2:34-35 P '58. (MIRA 11:3)
(Military engineers) (Ural Mountain region--Floods)

TSYPKIN, K., polkovnik; PAKHOMOV, V., polkovnik.

Clearing the building site of the Stalingrad Hydroelectric Power
Station of mines. Voen.-inzh. zhur. 101 no.2:33-34 F '58.

(MIRA 11:3)

(Stalingrad Hydroelectric Power Station--Mines, Military)

TSYPKIN, K., polkovnik; PAKHOMOV, V., polkovnik.

Removing mines in the Smolensk Province. Voen.-inzh. zhur. 101 no.2:
34 P '58. (MIRA 11:3)

(Smolensk Province--Mines, Military)

CHUMAKOVA, M.Ya.; VASIL'YEV, Yu.M.; SAVINOV, A.P.; AGOL, V.I.;
TSYPKIN, L.B.

Strain of malignant cells obtained through the prolonged cultivation in vitro of normal kidney tissue from mice of the A/SN line. Vop.onk. 8 no.8:51-57 '62. (MIRA 15:9)

1. Iz Instituta po izucheniyu poliomeilita i virusnykh entsefalitov (dir. - deystv. chl. AMN SSSR, prof. M.P. Chumakov) i Instituta eksperimental'noy i klinicheskoy onkologii (dir. - deystv. chl. AMN SSSR, prof. N.N. Elokhin) Akademii meditsinskikh nauk SSSR.
(CANCER) (TISSUE CULTURE) (KIDNEYS)

TSYPKIN, L.B. (Moskva)

Method for mounting sections stained for fat in Canada balsam. Arkh.
pat. 21 no.2:80 '59. (MIRA 12:12)

1. Iz patologoanatomicheskogo otdeleniya Moskovskoy oblastnoy psikhonevrologicheskoy bol'nitsy No.2 im. V.I. Yakovenko (glavnyy vrach V.V. Chentsov).

(HISTOLOGY,

inclusion into Canada balsam of section stained for
fat (Bms))

(FATS,

same)

SAVINOV, A.P.; TSYPKIN, L.B.

Morphological study on subcutaneous implants of stable cultures of
monkey heart. Vop.onk. 5 no.9:319-325 '59. (MIRA 12:12)

1. Iz laboratorii patologicheskoy gistologii (zav. - dots. I.A. Robin-
zon, konsul'tant po teme - chlen-korrespondent AMN SSSR prof. L.M.
Shabad) Instituta po izucheniya poliomielifita AMN SSSR (dir. - chlen-
korrespondent AMN SSSR prof. M.P. Chunakov). Adres avtorov: Moskva, 118,
8-ya ul., Sokolinoy gory, d.15, korp. 2. Institut po izucheniya polio-
mielifita AMN SSSR (dir. - chlen-korrespondent AMN SSSR prof. M.P.
Chumakov). Adres avtorov: Moskva, 118, 8-ya ul. Sokolinoy gory, d.15,
korp. 2. Institut po izucheniya poliomielifita AMN SSSR.
(HEART)
(NEOPLASMS exper.)

SAVINOV, A.P.; TSYPKIN, L.B.

Results of a morphological study of the stability of cultures of
Cynomolgus monkey heart cells in vivo. Vop.virus. 5 no.3:367-372
My-Je '60. (MIRA 13:9)

1. Institut po izucheniyu poliomyelita AMN SSSR, Moskva.
(NEOPLASMS) (VIRUSES)

HOZINSKI, V.I.; SEYBIL, V.B.; TSYPKIN, L.B.; PANTELEEVA, N.S.;
MAZUROVA, S.M.

Attempt to establish a diploid cell strain from human embryonic
tissue and testing its sensitivity to some viruses. Acta virol.
8 no.5:454-458 S '64.

1. Institute of Poliomyelitis and Viral Encephalitis,
U.S.S.R. Academy of Medical Sciences, Moscow.

TSYPKIN, L.B.

Cytological analysis of monkey testicular tissue under conditions of trypsinized monolayer culture in vitro. Biul. eksp. biol. i med. 55 no.3:96-101. Mr '63. (MIRA 18:2)

1. Iz Instituta poliomyelita i virusnykh entsefalitov (direktor - deystvitel'nyy chlen AMN SSSR M.P. Chumakov) AMN SSSR, Moskva.
Submitted July 5, 1962.

TSYPKIN, L.B.

Microglial reaction in senile dementia and the role of the microglia
in the structural genesis of senile plaques. Zhur.nevr. i psikh. 59
no.11:1325-1331 '59. (MIRA 13:3)

1. 2-ya Moskovskaya oblastnaya psikhiatricheskaya bol'nitsa imeni
V.I. Yakovenko (glavnyy vrach V.V. Chentsov).
(PSYCHOSIS SENILE pathol.)
(NEUROGLIA pathol.)

TSYPKIN, L.B. (Moskva)

Morphology of a malignant transformation of an astrocytoma.
Ark.h.pat. 20 no.11:67-71 '58. (MIRA 12:8)

1. Iz patologoanatomicheskogo otdeleniya (zav. - kand.med.
nauk L.B.TSyppkin) Moskovskoy oblastnoy psikhonevrologiche-
skoy bol'nitsy No.2 imeni V.I.Yakovenko (glavnyy vrach V.V.
Chentsov).

(BRAIN--TUMORS)

TSYPKIN, L.B.

Malignant degeneration of astrocytomas. Vop. neirokhir. 19 no.1:
38-44 Ja-F '55. (MLRA 8:2)

1. Iz pathologoanatomicheskoy laboratorii Nauchno-issledovatel'skogo
ordena Trudovogo Krasnogo Znameni instituta neyrokhirurgii imeni
akad. N.N.Burdenko Akademii meditsinskikh nauk SSSR.

(ASTROCYTOMA,
malignant degen.)

TYUFANOV, A.V.; TSYPKIN, L.B.; RAVKINA, L.I.; SHEPTEL, M.A.

Study on residual virulence for monkeys of Sabin's attenuated polio-virus strains used for mass production of live vaccine. Acta virol.
7 no.2:116-123 Mr '63.

1. Institute of Poliomyelitis and Viral Encephalitides, U.S.S.R.
Academy of Medical Sciences, Moscow.
(POLIOVIRUS VACCINE, ORAL)

TSYPKIN, L. B.; KROMENSKY, V.I.; ZEYBIL, V.B.; PANTELEYEV, N.S.; MAZUROVA, S. M.

"Utilization of a New Diploid Cell Strain Derived from Human Embryo Lung Tissue for the Cultivation of Enteroviruses and Measles-Virus."

Report presented at the Symposium on Biological Standardization,
Opatija, Yugoslavia, 24-26 Sep 63.

TSYRKIN, M.I., inzh.

Pneumatic system of remote control of the main marine diesel
engine. Sudostroenie 25 no.8:26-29 Ag '59. (MIRA 13:2)
(Marine diesel engines) (Pneumatic control)

L 24435-86 EWT(m)/I/ENF(t) LJP(L) JD/HB/JH
ACC NR: AT6006478 SOURCE CODE: UR/2680/65/000/024/0102/0123

AUTHORS: Taypin, M. I.; Rozenfel'd, I. L.; Ol'khovnikov, Yu. P.; Vizhekhovskaya, S. V. 57
56
BTI

ORG: State Scientific Research and Design Institute of Alloys and Nonferrous Metalworking, Moscow (Gosudarstvennyy nauchno-issledovatel'skiy i proyektnyy institut splavov i obrabotki tsvetnykh metallov)

TITLE: Investigation of the corrosion of aluminum in water at high temperatures

SOURCE: Moscow. Gosudarstvennyy nauchno-issledovatel'skiy i proyektnyy institut splavov i obrabotki tsvetnykh metallov. Trudy, no. 24, 1965. Metallovedeniye i obrabotka tsvetnykh metallov i splavov (Metal science and the treatment of non-ferrous metals and alloys), 102-123

TOPIC TAGS: aluminum, aluminum compound, corrosion, corrosion rate, intergranular corrosion/ AOO aluminum

ABSTRACT: It was the object of this investigation to resolve the existing controversy concerning the mechanism of the corrosion reaction of aluminum in water at high temperatures, as discussed by V. H. Trautner (Corrosion, 1959, v. 15, No. 1, 2

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L 24435-66

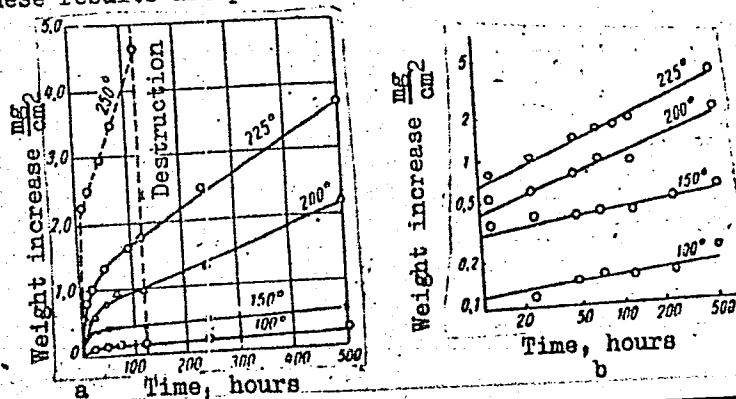
ACC NR: AT6006478

p. 17) and W. J. Bernard and J. J. Randall (Journ. Electrochem. Soc., 1961, v. 108, No. 9, p. 822). The experiments were carried out in steel autoclaves with aluminum specimens of A00 (99.99% Al) type aluminum and distilled water (pH 5.5 ~ 6.3) over the temperature range of 100--250C. The experimental results followed the relationship

$$\lg \Delta p = n \lg t + \lg k$$

where Δp is the weight increase of the specimen in mg/cm^2 , t - the time in hours, and k and n are constants. These results are presented graphically (see Fig. 1).

Fig. 1. Kinetics of aluminum oxidation in water at high temperatures. a - linear coordinates; b - logarithmic coordinates.



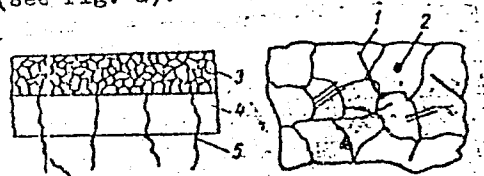
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ACC NR: AT6006478

The morphology of the corrosion products was studied. ¹⁸ Electron microscope pictures of the corrosion products are presented. The phase composition of the corrosion products was investigated by x-ray diffraction and electron diffraction techniques, and the results are also presented in tables and graphs. A scheme for the distribution of corrosion products is proposed (see Fig. 2).

Fig. 2. Scheme for the distribution of products based on the experimental data. 1 - σ phase; 2 - diasporite; 3 - crystal layer; 4 - optically structureless layer; 5 - products of inter-crystalline corrosion.



It is concluded that the experimental results support the mechanism proposed by Trautner (see reference above). The authors suggest that the rate of hydrogen ion diffusion into the metal depends on a number of factors, e.g., phase composition, size, form, and degree of perfection and optimum orientation of crystals. Orig. art. has: 5 tables, 10 graphs, and 2 equations.

SUB CODE: 11/ SUBM DATE: none/ ORIG REF: 004/ OTH REF: 019

Card 3/3add

VLADZIYEVSKIY, A.P., doktor tekhn. nauk, prof.; BELOUSOV, A.P.,
kand. tekhn. nauk, dots.; GLADILIN, A.N., kand. tekhn.
nauk, dots., retsenzent; TSYPKIN, M.Ye., inzh., retsenzent;
BEYZEL'MAN, R.D., inzh., red.[deceased]; FRID, L.I., inzh.,
red.izd-va; MODEL', B.I., tekhn. red.

[Arrangement of automatic production lines] Ustroistvo av-
tomaticheskikh lini. Moskva, Mashgiz, 1963. 242 p.
(MIRA 17:1)

TSIPKIN, M.Ye.; inzh.; KRASNOV, L.B., inzh.; GOL'TSIKER, D.G., inzh.;
ASMUS, I.V., inzh.; VERIN, I.I., inzh.; KUCHER, I.M., kand.tekhn.
nauk, retsenzent; OGLOBLIN, A.N., dots., red.; LEYKINA, T.L.,
red.izd-va; SOKOLOVA, L.V., tekhn.red.

[Milling machine parts by boring machines] Obrabotka detalei mashin
na rastochnykh stankakh. Pod obshchei red. A.N.Oglobina. Moskva,
Gos. nauchno-tekhn.izd-vo mashinostroit. lit-ry, 1958. 339 p.
(Drilling and boring) (MIRA 11:4)

TSYPKIN, M.Ye. (Ryazan')

Expressions for the measures of curvature and torsion of an
unusual ruled surface. Izv.vys.ucheb. zav.; mat. no. 1:144-152
'64. (MIRA 17:5)

Tsyarkin, M. Ye.

PHASE I BOOK EXPLOITATION

531

Tsyarkin, M.Ye., Krasnov, L.B., Gol'tsiker, D.G., Asmus, I.V.,
Verin, I.I.

Obrabotka detaley mashin na rastrochnykh stankakh (Processing of
Machine Parts on Boring Machines) Moscow, Mashgiz, 1958. 339 p.
12,000 copies printed.

Ed.: Ogloblin, A.N., Docent; Reviewer: Kucher, I.M., Candidate of
Technical Sciences; Ed. of Publishing House: Leykina, T.L.;
Tech. Ed.: Sokolova, L.V.; Managing Ed. for literature on the
technology of machine building of the Leningrad Branch of
Mashgiz: Naumov, Ye.P., Engineer.

PURPOSE: This book is recommended as a text for technical schools.
It is intended also for boring-machine operators in machine-
building plants specializing in individual and limited series
production.

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Processing of Machine Parts on Boring Machines

COVERAGE: The textbook reviews designs of the most widely used boring machines and explains various aspects of machining piece parts under conditions of individual and limited series production. Examples of machining frame parts with and without the aid of jigs are cited as well as examples of special operations performed on boring machines. Special cutting tools, measuring instruments, and auxiliary tools employed in boring operations are described. Measures for increasing the productive capacity of boring machines and for improving the quality of machining are reviewed. The task of preparing the textbook was apportioned as follows: I.V. Asmus prepared Chapter IV; I.I. Verin, Chapter I; D.G. Gol'tsiker, Chapter II; L.B. Krasnov, Chapter V, VI, and VII and paragraphs 49, 50, and 51 of Chapter VIII; M.E. Tsypkin, Chapter III, paragraph 13 of Chapter IV, paragraph 27 of Chapter V, paragraph 40 of Chapter VI, paragraph 41 of Chapter VII, paragraphs 46, 47, 48, and 51 of Chapter VIII, and Chapter IX. The authors, in compiling the textbook, drew on the experience of the Leningrad Machine-tool Building Plant imeni Sverdlov and the Kramatorsk Plant for heavy machine tools. There are 7 Soviet references.

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Processing of Machine Parts on Boring Machines

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AVAILABLE: Library of Congress (TJ1260.036)	
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KUCHER, Aleksandr Mikhaylovich, kand. tekhn. nauk; KIVATITSKIY,
Mikhail Moiseyevich; POKROVSKIY, Antony Aleksandrovich;
FEDOTENOK, A.A., doktor tekhn. nauk, retsenzent; TSYPKIN,
M.Ye., inzh., retsenzent; SHAVLUGA, N.I., kand. tekhn.
nauk, red.; VARKOVETSKAYA, A.I., red. izd-va; LEYKINA,
T.L., red. izd-va; KUREPINA, G.N., red. izd-va; SHCHETININA,
L.V., tekhn. red.

[Machine tools; album of general design; kinematic diagrams
and units] Metallorezhushchie stanki; al'bom obshchikh vi-
dov, kinematicheskikh skhem i uzlov. Pod obshchei red. A.M.
Kuchera. Moskva, Mashgiz, 1963. 282 p. (MIRA 16:7)
(Machine tools—Design and construction)

MARSHAK, I.S., kand.tekhn.nauk; TSYPKIN, N.K., inzh.

Blinding effect of flash light sources. Svetotekhnika 4 no.6:21-22
Je '58. (MIRA 11:6)

(Light--Physiological effect)

TSYPKIN, SERGEY DMITRIYEVICH

Pravovoye Regulirovaniye Nalogovykh Otnosheniy v SSSR (Lawful Regulation of
Tax Structure in the USSR) Moskva, Gosyurizdat, 1955.

74 p.

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105.262
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MATUSEVICH, Ye.S.; TSYPIN, S.G.

Problems of radiation shielding for man in space. Atom.
energ. 15 no.6:499-504 D '63. (MIRA 17:1)

DULIN, V.A.; KAZANSKIY, Yu.A.; MASHKOVICH, V.P.; PANOV, Ye.A.;
TSYPIN, S.G.

~~TSYPIN, S.G.~~
Attenuation functions of neutrons from isotropic and highly
collimated fission sources in water. Atom.energ. 9 no.4:
315-317 0 '60. (MIRA 13:9)
(Neutrons)

TSYPKIN, S. I.
~~ZYPKIN, S. I.~~

"Isomerism Induced in In 115 By Electron Impact," Dok. AN, 30, No. 5, 1941.

Ukrainian Inst. for Tech. Phys. Kharkov. c1941--.

~~TSYPKIN, S. I.~~
~~ZYPKIN, S. I.~~

"An Investigation of Bremsstrahlung by Means of
Excited In Nuclei"

Zhur. Phys., 129, No. 3, Vol. VII, 1943

Physico-Tech. Inst., Acad. of Sci. of the Ukrainian
SSR. c1941-.

TSYPKIN, S. I.

USSR/Nuclear Physics -- Gamma Rays
Nuclear Physics -- Radioactivity

Nov/Dec 48

"Radioactivity of Be⁷," V. V. Gey, G. D. Latyshev, S. I. Tsypkin, A. A. Yuzefovich, 3 pp

"Iz Ak Nauk SSSR, Ser Fiz" Vol XII, No 6

After measuring the gamma-radiation resulting from annihilation of matter, concludes that if there is a supplementary component in the composition of the gamma-radiation of Be⁷, it does not result from annihilation of matter.

PS 25/49T85

KRUPIN, G.V.; BELYAYEV, I.T.; LAPSHIN, A.A.; GORDEYEV, N.I.; MAR'YANOVSKIY, I.M.; PAVLOV, B.V.; ZHILOV, S.N.; TSYPKIN, S.I.; ANDREYEV, H.H.; KAZIMIROVA, V.F.; KURANOVA, I.L.; PIGULEVSKIY, G.V.

Annotations of the scientific research work performed at the institute in 1957. Trudy LTIKHP 15:213-227 '58.

(MIRA 13:4)

1. Leningradskiy tekhnologicheskiy institut kholodil'noy promyshlennosti.
 2. Kafedra tekhnologicheskogo oborudovaniya pishchevykh proizvodstv (for Krupin, Lapshin, Pavlov).
 3. Kafedra ekonomiki i organizatsii proizvodstva (for Belyayev).
 4. Kafedra detaley mashin i pod'yemno-transportnykh mashin (for Gordeyev).
 5. Kafedra grafiki (for Mar'yanovskiy).
 6. Kafedra promyshlannoy teplotekhniki (for Zhilov).
 7. Kafedra fiziki (for TSypkin).
 8. Kafedra fizicheskoy kolloidnoy i organicheskoy khimii (for Andreyev, Kazimirova, Kuranova, Pigulevskiy).
- (Refrigeration and refrigerating machinery)
(Chemistry, Technical)

68190
SOV/58-59-5-10951

24.2700
24.7600

Translation from: Referativnyy Zhurnal Fizika, 1959, Nr 5, p 149 (USSR)

AUTHOR:

Tsyarkin, S.I.

TITLE:

Some Non-Steady Phenomena in the Peltier Effect

PERIODICAL:

Tr. Leningr. tekhnol. in-t kholodil'n prom-sti, 1958, Vol 15, p 224

ABSTRACT:

The author considers briefly the problem of correlating with time (t) the temperature (t) of the cold junction between two semiconductors through which a current is passing. He submits the results of solving this problem (by the operational method) for the case of a thin semi-limited rod with continuously distributed sources of Joule heat, removal of Peltier heat through the butt boundary, and heat exchange with the surrounding medium through the lateral surface. It follows from the general solution that when $\tau = \infty$, the optimum magnitude of the steady temperature depends only on $z = \alpha^2 \sigma / 4 \lambda$ (α is the thermo-emf, σ and λ are the specific electric and thermal conductivities respectively of the circuit materials). Expansion of the solution into a series shows that $t(0, \tau)$ has a minimum at all practically essential values of z . In the event of not too weak

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TsyPKIN, S. I.

28(1)
AUTHOR: Vologdin, V.V.

30V/142-2-1-30/72

TITLE: A Conference on Electrical Food Processing Methods (Kongress po elektricheskim metodam obrabotki pishchevnykh produktov)

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy - radiotekhnika, 1959, Vol 2, No 1, pp 120-121 (USSR)

ABSTRACT: A conference on electrical food processing methods was held in Kiev from 10 to 13 October 1958. The conference was organized by the Kiyevskiy tekhnologicheskii institut pishchevoy promyshlennosti USSR (Kiev Institute of Technology of the Food Industry USSR). The conference comprised a wide range of problems and the novelty of the subject matter treated interested workers from scientific institutions and industrial installations. The 350 delegates came from 60 towns of the USSR; 119 participants were sent to the conference from various scientific research institutes. At the conference, more than 50 reports were delivered and discussed, dealing with problems of applying electrostatic fields, direct current, low frequency current, high frequency current, infrared and ultraviolet radiation, X-ray and gamma radiation for processing food products. Also statements were made concerning the application of ultrasound and vibrations in the food industry. Considerable attention was devoted to the application of TVCh (tok vysokochastoty - high frequency current) for technological purposes, particularly for processing non-conductive materials in an electric high frequency field. More than 20 reports and statements were delivered on this subject, dealing with theoretical and technological problems. For example: "The Electrical Properties of Some Food Products in High Frequency Fields" by S. A. Anisimov, V. A. Rudin, A. V. Kutsalil (Moscow); "Active Losses in Food Products" by L. A. Pavlov (Kiev); "Active Losses in Food Products of Milk" by Yu. G. Nedvinskii (Leningrad); "A Continuous Automatic High Frequency Sterilizer for the Sterilization of Fruit Conserves on a Conveyor" by M. D. Chernyavskiy (Moscow); "The Defrosting of Spiced Sprats by High Power" by V. B. Fedosevalov (Astrakhan); "The High Frequency Boiling of Electrically Smoked Fish" by A. A. Kallina and L. A. Pavlov (Kiev); "The Technological Peculiarities of Processing Sausage Products by High Frequency Currents" by A. A. Shabkina (Moscow). At the conference, the following reports were heard with great interest and were discussed in detail: "The Application of Infrared Heating for Drying of Fish Products" by M. B. Belostotskiy (Riga); "The Logical Principles of the Hot Electrical Processing Process" by A. A. and M. I. Kallina and M. A. Kuznetsov (Kiev); "A New Fish Processing Technology and the Processing of Sardines and Sprats With the Application of Infrared Light and Smoking Liquid" by L. A. Kallina (Moscow); "The ViliKOP Experimental Equipment for Ionization Processing of Food Products of the Possible Application of Radioactive Radiation for Preserving the Edible Residue of Integumentary Whale Fat" by S. A. Kuvshinov (Leningrad).

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ASSOCIATION: Leningradskiy elektrotexnikicheskii institut imeni V. I. Ul'yanova (Leningrad) (Leningrad Institute of Electrical Engineering imeni V. I. Ul'yanov (Lenin))

SUBMITTED: November 3, 1958
Card 5/5

TSYPKIN, T.I., kand.sel'skokozyaystvennykh nauk

The Mynbaev Experimental Demonstration Farm. Zhivotnovodstvo
23 no.8:25-30 Ag '61. (MIRA 16:2)

1. Zaveduyushchiy otделom ekonomiki Kazakhskogo nauchno-
issledovatel'skogo instituta zhivotnovodstva.
(Kazakhstan--Agricultural experiment stations)

BEPPOZVANNYY, B.K. (Moskva); TEFIN, V.I. (Moskva); BUZINOV, I.V. (Moskva);
CHIZHOV, V.A. (Moskva)

Morphology of spontaneous toxoplasmosis of minks. Arkh. pat. 27
no.2:72-78 '65. (MIRA 18:5)

1. Laboratoriya patomorfologii (ispolnyayushchiy obyazannosti
zaveduyushchego - kand.med.nauk B.K.Bezprozvanny) Instituta
virusologii imeni Ivanovskogo (dir. - deystvitel'nyy chlen MN
SSSR prof. V.M.Zhdanov) i otdel veterinarii (zav. - kand.
veterinarnykh nauk I.A.Buzinov) Nauchno-issledovatel'skogo
instituta pushnogo zverovodstva i krolikovodstva (dir. - kand.
biolog. nauk M.D.Abramov).

TSYPKIN, V. S.
(Viktor Solomonovich)
Coal Mines

C/1964

1964

DECEASED

TSYPKIN, Ya. L.

AID P - 2366

Subject : USSR/Electricity

Card 1/2 Pub. 27 - 29/30

Authors : Babakov, N. A., Prof., Tsyarkin, Ya. L., Prof.,
Shumilovskiy, N. N., Prof., and others, members of
the Chair of Automatic Control and Regulation of the
All-Union Correspondence Institute of Electrical
Engineering

Title : A. A. Voronov. Elementy Teorii Avtomaticheskogo
Regulirovaniya (Elements of the Theory of Automatic
Regulation). 2nd Ed., revised and supplemented, 471 pp.,
1954, Military Publishing House of the Ministry of
Defense of the USSR (Book review).

Periodical : Elektrichestvo, 5, 87-88, My 1955

Abstract : The authors of the book review discussed it at the
meeting of the members of the chair. After a systematic
discussion of every chapter, the authors conclude that
the book presents a valuable contribution to the presen-
tation of this new and rapidly developing branch of

Elektrichestvo, 5, 87-88, My 1955

AID P - 2366

Card 2/2 Pub. 27 - 29/30

engineering. Its most important deficiencies are its insufficient development of the theory of non-linearity and that not enough numerical examples are given. Otherwise, the book is highly recommended and was approved by the Ministry of Culture of the USSR.

Institution: None

Submitted : No date

TSYFKIN, Ya. Z.; BRONBERG, P.V.

Institute of Automatics and Telemechanics, Academy of Sciences, USSR. "Concerning Degrees of Stability of Linear Systems." Iz. Ak. Nauk SSSR, Otdel. Tekh. Nauk, No. 12, 1945. Submitted 6 Aug 1945.

Report U-1582, 6 Dec 1951.

TSYPKIN, Ya. Z.

PA 19T23

USSR/Nyquist's Theorem
Feedback phenomena

Aug 1946

"Stability of Systems with Feedback Coupling," Ya.
Z. Tsyppkin, Candidate of Mech Sci, 12 pp

"Radiotekhnika" Vol I, No 5

The Nyquist criterion employed in investigations of
systems with feedback coupling involves complicated
calculations. The present paper suggests a criterion
which considerably simplifies the analysis.

19T23

TSYPKIN, YA. Z.

PA 20T59

USSR/Radio

Oct/Nov 1946

Circuits, Automatic Frequency Control
Retardation

"Stability of Automatic Frequency Correction System
by Considering the Effect of Retardation," Ya. Z.
Tsypkin, Candidate of Mechanical Sciences, 6 pp

"Radiotekhnika" Vol I, No 7/8

An automatic frequency correction (AFC) system is investigated by considering the effect of retardation. A stability criterion is given which makes it possible to determine the influence of the retardation upon the stability and thus choose parameters which assure stable operation of the AFC system.

20T59

TSYPKIN, Ya. Z.

K teorii klistrona. (Radiotekhnika, 1947, v. 2, no. 1, p. 49-61,
diags.)

Summary in English.

Title tr.: Theory of the klystron.

TK5700.R32 1947

SO: Aeronautical Sciences and Aviation in the Soviet Union, Library of
Congress, 1955.

"APPROVED FOR RELEASE: 08/31/2001

CIA-RDP86-00513R001757320007-9

APPROVED FOR RELEASE: 08/31/2001

CIA-RDP86-00513R001757320007-9"

TSYPKIN, YA. Z.

42281: TSYPKIN, YA. Z. - K zadache o mikrofonnoy tsepi. Trudy Mosk. energet. in-ta im. Molotova, VYP. 3, 1948, s. 153-62.

SO: Letopis' Zhurnal'nykh Statey, Vol.47, 1948

TSYPKIN, YA. Z.

USSR/Electronics
Regulators, Electronic
Synchronous Machines

Mar/Apr 1948

"Stability and Ratio of Stability in a System of
Intermittent Regulation," Ya. Z. Tsypkin, Inst of
Automatics and Telemekh, Acad Sci USSR, 21 pp

"Automat i Telemekh" Vol IX, No 2

PA 64T55

Criteria for the stability of systems of intermittent
regulation, permitting simple quantitative and qualita-
tive evaluation of the stability. Stability ratios
for evaluation of processes occurring in systems of
intermittent regulation. Method for calculating the
stability of the latter. Studies of the resistance
of intermittent regulating systems to temperature.
This was studied for samples possessing feedback
circuits, and those without feedback circuits. Sub-
mitted 3 Dec 1947.

64T55

TSYPKIN, YA. Z

USSR/Electronics
Regulators, Electronic
Parameters, Stability

MAY/JUN 1948

"Stability of One Class of Systems of Automatic Regu-
lation With Divided Parameters," Ya. Z. Tsypkin,
14 pp

"Automat i Telemekhan" Vol IX, No 3

Gives criterion of stability of wide class of auto-
matic regulating systems with divided parameters,
based on generalization of previously established
stability criterion of systems with lagging return
link. Includes examples of application of this

USSR/Electronics (Contd)

MAY/JUN 1948

criterion to investigation of stability of some
automatic regulating systems with divided parameters.
Submitted 27 Nov 1947.

76217

TSYPKIN, YA. Z.

USSR/Electronics

Servo Systems

Fire Control Systems

Jul/Aug 48

"Review of V. A. Besekerskiy's Book "Remote Control of Artillery," M. A. Ayzerman, Ya. Z. Tsypkin, 2 $\frac{1}{2}$ pp

"Avtomatika i Telemekh" Vol IX, No 4

Unfavorable review. Part I: "The Foundations of the Theory of Automatic Regulating and the Theory of the Synchronous-Servo Drive," Published by the Leningrad Order of Red Banner Mil Mech Inst, Leningrad, 1947.

PA 13/49T30

TSYPKIN, YA. Z.

25714

Nerezonansnye Elektricheskie Tsapi s Peremennym i nelineynym Parametrami.
Elektrichestvo, 1949, No. 8, s. 35-37.

Zh. Radiotekhnika. Primenenie Radio (Radiolokatsiya i proch.) Televideniie
(eksploatatsionnye UoProsy Radiosvyazi-Sm. XIX, 3)

SO: LETOPIS' No. 34

PA 44/49T36

USSR/Electronics
Servomechanisms
Regulators

May/Jun 49

"Theory of Continuous Regulation (Systems With a
Forced Rhythm of Circuit Interruption)," Ye. Z.
Tsypkin, Inst of Automatics and Telemekh, Acad
Sci USSR, 36 pp

"Avtomat i Telemekh" Vol X, No 3

Classifies systems of continuous regulation.
Introduces the concept of operator-, frequency-
and time-characteristics of closed and open
systems of continuous regulation which permits
one to avoid enormous calculations necessary

44/49T36

USSR/Electronics (Contd)

May/Jun 49

to set up difference equations and obtain the
derivation of operator equations which describe
processes in the system in discrete equidistant
time (contact) moments. This concept is illus-
trated in a number of practical systems of con-
tinuous regulation. Submitted 3 Sep 48.

44/49T36

TSYPKIN Ya. Z.

TSYKHIN YA. Z.

1A 151T25

USSR/Engineering - Regulation, Dis- Sep/Oct 49
continuous
Servomechanisms

"Theory of Discontinuous Regulation: II. Stability of Systems of Discontinuous Regulation,"
Ya. Z. Tsykhin, Inst of Automatics and Telemekh,
Acad Sci USSR, 20 pp

"Automat i Telemekh" Vol X, No 5

Introduces concept of operator and frequency characteristic for systems of discontinuous regulation, and establishes criteria governing their stability analogous to criteria of stability in systems of continuous regulation.

151T25

USSR/Engineering - Regulation, Dis- Sep/Oct 49
continuous (Contd)

Applies stability criteria to study of stability in various systems of discontinuous regulation of first and second type, considering separately cases of lag and no lag. Simple graphs demonstrate obvious influence of introducing "derivative" regulation, inflexible and flexible feedback upon the stability of systems, in opposition to algebraic criteria applied earlier.
Submitted 3 Sep 48.

151T25

TSYPKIN, Ya. Z.

PHASE I TREASURE ISLAND BIBLIOGRAPHICAL REPORT AID 291 - I

BOOK

Call No.: TK7835.T8

Author: TSYPKIN, YA. Z.

Full Title: TRANSIENT AND STEADY-STATE PROCESSES IN PULSE NETWORKS

Transliterated Title: Perekhodnye i ustanovivshiesya protsessy v impul'snykh tsepyakh

Publishing Data

Originating Agency: None

Publishing House: State Publishing House for Energetics

Date: 1951 No. pp.: 220 No. of copies: 4,000

Editorial Staff

Editor: Dolgolenko, Yu. V., Tech. Ed.: None
Candidate of Technical Sciences

Editor-in-Chief: None

Appraiser: None

Others: The author expresses his gratitude to Engineer O. A. Retzkaya who contributed most of the graph computations, and to Yu. V. Dolgolenko, Candidate of Technical Sciences, who made valuable comments during the editing of the text.

Text Data

Coverage: An exposition of the theory and analysis of transient and
1/2

Perekhodnye i ustanovivshiesya protsessy
v impul'snykh tsepyakh

AID 291 - I

steady-state processes in pulse networks, specifically, in linear electric circuits and mechanical systems with pulse input. The developed theory is applied to the study of intermittent and relay-type control systems.

The book is primarily theoretical in nature. The discussion revolves around a simple and comprehensive method of analysis and computation, illustrated with specific characteristic examples with a full complement of formulas and graphs.

Table of Contents:

Ch. 1	Elements of Laplace's Transforms.
2	Pulse Networks.
3	Pulse Feedback Systems.
4	Relay Feedback Systems.

Purpose: Intended for scientists, candidates for academic degrees, and research engineers working in the fields of electrical and radio engineering, and automatics.

Facilities: Not given

No. of Russian and Slavic References: 47 (of these, 10 are non-Soviet)

Available: Library of Congress.

2/2

TSYPKIN, YA. Z.

USSR/Physics - Regulation, Discoun-
tinuous (Discrete)

May/Jun 51

"Discussion: Remarks on the Work of Ya. Z. Tsypkin,
'Theory of Discontinuous (Discrete) Regulation.
I,' I. A. Yakovlev

"Avtomat i Telemekh" Vol XII, No 3, pp 232-234

Touches on the connection between "discrete La-
place transformations," introduced by Ya. Z.
Tsypkin in "Avtomat i Telemekh" Vol X, No 3, 189,
1949, and ordinary Laplace transformations. Cf.
D. V. Widder's "The Laplace Transformation," 1941
Submitted 1 Dec 50. (In a note to the editors
Tsypkin acknowledges making an incorrect assertion)

217T63

TSYPKIN, Ya M; Naumov, Boris Nikolayevich, Meyerov, M. V., Fomia, E N

"Study of the Frequency Regulation Process in the System Moscow-Kuibyshev,"
Scientific Report of the Inst of Automation and Telemechanics, USSR Acad of
Sciences, 1952.

TSYPKIN, Ya Z.; Naumov, Boris Nikolayevich; Moyerov, M. V.; Shelounova, D. J.;
Pomis, E. N.

"Investigation of the Velocity Regulation Process in the System
Moscow-Kuibyshev, with Special Reference to the Phenomenon of the Retardation
in the Kuibyshev Hydroturbine," Scientific Report of the Inst. of Automation
and Telemechanics, USSR Acad. of Sciences, 1952.

TSYPKIN, Ya. E.; Naumov, Boris Nikolayevich

"Investigation of the Regulation Process of Frequency and Power Transfer (?)
in the System Moscow-Kuibyshev," Scientific Report of the IAT, USSR Acad.
of Sciences, 1952.

TSYPKIN, Ya. Z

"Forced Oscillations in Relay-Type Automatic Control Systems," Inst. of
Automatics and Telemechanics, AS USSR, Avtomat. i Telemekh., Vol. 13, No 5,
pp 501-525, 1952

Gives a precise method for investigating forced oscillations in relay systems.
Method involves the "generalized frequency response" of open-loop relay systems. This
has been used previously for the study of stability and self-excited oscillations.
Submitted 26 Apr 52.

256T64

TSYPKIN YA. Z.

Tsyarkin Ya. Z., "An Annotated Index of Works on the Theory of Automatic Regulation for the Year 1947," Issue 1, Moscow, 1953, 23 pages; bibliography, 43 items (USSR Ministry of Culture, All-Union Correspondence Energy Institute, Department of Automatic Control and Regulation).

TSYPKIN YA. Z.

Tsyarkin Ya. Z., "Letter on Techniques for the Course, 'Theory of Automatic Regulation'," Moscow, 1953, 23 pages (All-Union Correspondence Energy Institute).

TSYPKIN YA. Z.

Tsyarkin Ya. Z., "Reliability of Automatic Regulation Systems," lecture,
Moscow, 1953, 56 pages with sketches, All-Union Correspondence
Energy Institute, Department of Automatic Control and Regulation.

(V: 63)

TSYPKIN, YA. S

Tsyarkin, Ya. S. defended his Doctor's dissertation in the Institute of Automatics and Telemechanics, Academy of Sciences USSR on 6 February 1943, for the academic degree of Doctor of Technical Sciences.

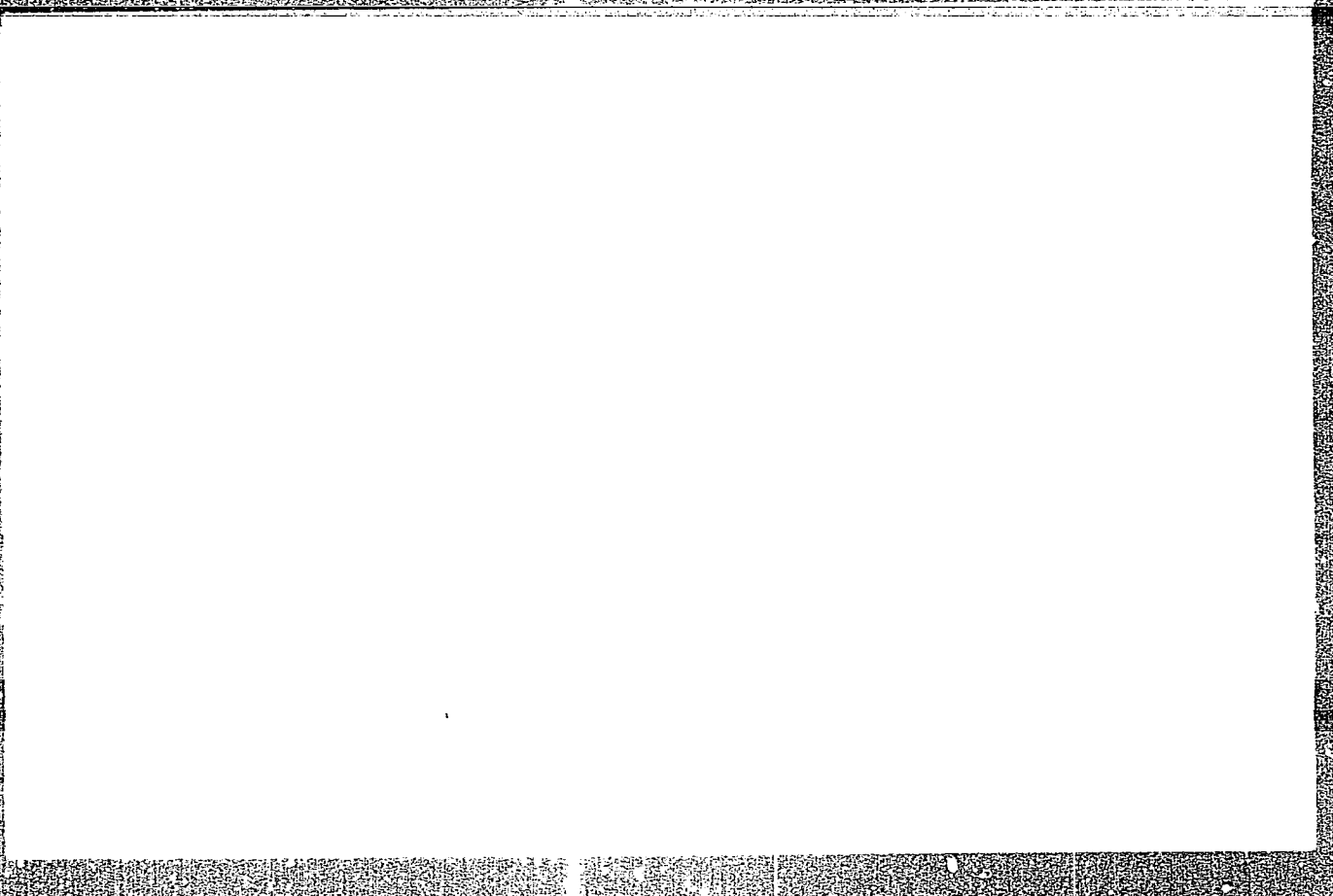
Dissertation: "Systems with Delayed Feedback". Resume: Tsyarkin examined systems with delayed feedback, developed stability criteria and methods for investigating the degree of stability and constructed transient and forced processes for linear systems. Methods were also developed for investigating self-induced oscillations in nonlinear systems. The methods were used for analysis and calculation of systems for automatic regulation of pressure and temperature of a servo system, an aircraft automatic pilot, ultra-short-wave generators, klystrons, systems with distributed parameters, and others. The theory described is applicable to analysis and calculation of complex systems with lumped parameters, which can be approximately replaced by simple equivalent systems.

Official Opponents: Profs. A. A. Andronov; K. F. Teodorovich, (Doctor of Technical Sciences); K. M. Polivanov; and B. N. Petrov (Doctor of Technical Sciences).

SO: Elektrichestvo, No. 7, Moscow, August 1953, pp 87-92 (W/29844, 16 Apr 54)

"APPROVED FOR RELEASE: 08/31/2001

CIA-RDP86-00513R001757320007-9



APPROVED FOR RELEASE: 08/31/2001

CIA-RDP86-00513R001757320007-9"

TSYPKIN, Ya.Z. (Moskva)

Calculating intermittent control systems in the presence of stationary random influences. Avtom. i telem. 14 no.4:353-374 J1-Ag '53.

(MLRA 10:3)

(Automatic control)

TSYPKIN, Ya. Z. (Moskva)

On I. A. Iakovlev's article "Limits of applying I.A.Z. Tsypkin's method
to the theory of pulse control". Avtom. i telem. 14 no.4:466-470 J1-
Ag '53. (MIRA 10:3)
(Automatic control) (Pulse techniques(Electronics))

TSYPKIN, YA. Z.

PETROV, B.M.; TSYPKIN, Ya. Z.; KURAKIN, K.I.; TIKHONOV, V.I.; SIYITSYN, A.S.

Resolutions of the committee selected by the seminar on the theory
of automatic control after discussing. V. V. Solodovnikov's book
"Introduction to the statistical dynamics of automatic control systems".
Avtom. i telem. 14 no.4:477 J1-Ag '53. (MLRA 10:3)
(Automatic control)

TSYPKIN, YA. Z.

"Stability of Periodic Operating Conditions in Relay Systems of Automatic Regulation", Avtomatika i Telemekhanika, Vol 14, No 5, 1953, pp 638-646.

Analyses a relay system, consisting of a linear element and a relay element, the characteristic of which is $u_p = \phi(u_{BX})$ (u_p, u_{BX} -- output and input coordinates of the relay) acquires the values $\pm K_n$.

The linear part of the system may contain lumped and distributed parameters. The external periodic reaction is coupled to the input of the relay element.

Considering the simplest periodic operating condition $u_{BX}, T(t), T = \pi/\omega_0$ as determined, the author solves the problem of its stability. The equation of variations is written in the form

$$Q(D) \xi(t) = P(D) \xi_1(t) \quad (D = \frac{d}{dt}) \quad (1)$$

Here $Q(D), P(D)$ are polynomial or transcendent functions

$$\varepsilon_1(t) = - \frac{2K_u}{\dot{u}_{BX,T}(T)} \sum_{m=0}^{\infty} \delta(t-mT) \varepsilon(mT)$$

The prime in the summation sign means that for $m = 0$ the term is multiplied by $\frac{1}{2}$.

It may be considered that the equation (1) corresponds to the system of intermittent regulation, in which the linear part of the system coincides with the linear part of the relay system, and the pulse element is characterized by a recurrent period equal to the half period T , infinitely small porosity and amplification factor

$$\overline{K_u} = \frac{2K_u}{\dot{u}_{BX,T}(T)}$$

Hence the investigation of stability of a periodic operating condition in the relay system leads to the investigation of the stability of a certain system of intermittent regulation. The fact of stability (instability) of the system of intermittent regulation is established by means of well-known criteria. (RZhMekh, No 11, 1954)
SO: Sum. No. 443, 5 Apr. 55

TSYPKIN, Ya. Z.

SOLODOVNIKOV, V.V.; professor, doktor tekhnicheskikh nauk, redaktor;
 AYZERMAN, M.A., doktor tekhnicheskikh nauk; BASHKIROV, D.A., kandidat
 tekhnicheskikh nauk; BROMBERG, P.V., kandidat tekhnicheskikh nauk;
 VORONOV, A.A., kandidat tekhnicheskikh nauk, dotsent; GOL'DFARB, L.S.,
 doktor tekhnicheskikh nauk, professor; KAZAKEVICH, V.V., doktor tekhnicheskikh nauk;
 KRASOVSKIY, A.A., kandidat tekhnicheskikh nauk, dotsent; LERNER, A.Ya., kandidat tekhnicheskikh nauk; LETOV, A.M.,
 doktor fiziko-matematicheskikh nauk; professor; MATVEYEV, P.S.,
 inzhener; MIKHAYLOV, F.A., kandidat tekhnicheskikh nauk; PETROV, B.N.;
 PETROV, V.V., kandidat tekhnicheskikh nauk; POSPELOV, G.S., kandidat
 tekhnicheskikh nauk, dotsent; TOPCHEYEV, Yu.I., inzhener; ULANOV,
 G.M., kandidat tekhnicheskikh nauk; KHRAMOY, A.V., kandidat tekhnicheskikh nauk;
 TSYPKIN, Ya. Z., doktor tekhnicheskikh nauk, professor;
 LOSSIYEVSKIY, V.L., doktor tekhnicheskikh nauk, professor, retsenzent;
 TIKHONOV, A.Ya., tekhnicheskii redaktor

[Fundamentals of automatic control; theory] Osnovy avtomaticheskogo
 regulirovaniya; teoriya. Moskva, Gos. nauchno-tekhn. izd-vo mashino-
 stroit. lit-ry, 1954. 1116 p. (MLRA 8:2)

1. Chlen-korrespondent AN SSSR (for Petrov, B.N.)
 (Automatic control)

"APPROVED FOR RELEASE: 08/31/2001

CIA-RDP86-00513R001757320007-9

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CIA-RDP86-00513R001757320007-9"

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APPROVED FOR RELEASE: 08/31/2001

CIA-RDP86-00513R001757320007-9"

Tsyarkin, Ya. Z.

AYZERMAN, M.A., dokt. tekhn. nauk, redaktor; VORONOV, A.A., kandidat tekhn. nauk, redaktor; KOGAN, B.Ya., kandidat tekhn. nauk, redaktor; KOTEL'NIKOV, V.A., kandidat tekhn. nauk, redaktor; LETOV, A.M., dokt. fiz.-mat. nauk, redaktor; LOSSEYEVSKIY, V.L., dokt. tekhn. nauk, redaktor; KHRAMOY, A.V., kand. tekhn. nauk, redaktor; TRAPEZNIKOV, V.A., redaktor; MEYEROV, M.V., dokt. tekhn. nauk, redaktor; NAUMOV, B.N., redaktor; PETROV, B.N. redaktor; SOLODOVNIKOV, V.V., dokt. tekhn. nauk, redaktor; TSYPKIN, Ya.Z. dokt. tekhn. nauk, redaktor PEVZNER, R.S., tekhn. redaktor.

[Proceedings of the Second All-Union Conference on the Theory of Automatic Control.] Trudy Vtorogo Vsesoiuznogo soveshchaniya po teorii avtomaticheskogo regulirovaniya. Moskva, Izd-vo Akad. nauk SSSR, [Vol. 1 Problem of continuous and periodic operations in the theory of automatic control] Vol.1 Problema ustoychivosti i periodicheskikh rezhimov v teorii avtomaticheskogo regulirovaniya. (MLR 8:8)
1955. 603 p.

1. Chlen korrespondent AN SSSR (for Trapeznikov, Petrov) 2. Akademiya nauk SSSR. Institut avtomatiki i telemekhaniki.

"APPROVED FOR RELEASE: 08/31/2001

CIA-RDP86-00513R001757320007-9

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APPROVED FOR RELEASE: 08/31/2001

CIA-RDP86-00513R001757320007-9"

TSYPKIN, Ya.Z.

Calculation of amplitude characteristics of limiters. Radiotekh-
nika 10 no.12:71-74 D '55. (MLRA 9:3)
(Radio)

USSR/Automatics and telemechanics-pulse forms

FD-2759

Card 1/2 Pub. 10 - 4/11

Author : Tsypkin, Ya. Z. (Moscow)

Title : Taking into account the form of pulses in systems of discontinuous regulation

Periodical : Avtom. i telem., 16, Sep-Oct 1955, 462-466

Abstract : The author shows that the theory expounded earlier by him ("Theory of discontinuous regulation. I, II, III," *ibid.*, 10, Nos 3 and 5, 1949; 11, No 5, 1950. "Frequency method of analyzing systems of discontinuous regulation," *ibid.*, 14, No 1, 1953) is applicable also to systems of discontinuous regulation of the first type which are characterized by the fact that the output quantity of pulse element is represented as a sequence of pulses of arbitrary form which are equidistant from one another. References: V. V. Solodovnikov, *Vvedeniye v statisticheskuyu dinamiku sistem avtomaticheskogo upravleniya* [Introduction to statistical dynamics of automatic regulation systems], State Technical Press, 1952; A. A. Voronov, *Elementy teorii avtomaticheskogo regulirovaniya* [Elements of the theory of automatic regulation], Military Press, 1954; Ya. D. Shirman, "Simplified methods of analyzing the spectra of impulse

Card 2/2

FD-2759

modulation," Trudy LKVVIA [Works of Leningrad Military and
Aeronautical Engineering Academy], No 19, 1948; translation from
English of "Generation of electric oscillations of special form,"
Volume II, Soviet Radio Press, 1951.

Institution : -

Submitted : January 26, 1955

TSYPKIN, Ya.Z., professor, otvetstvennyy redaktor; POPKOV, S.L., redaktor
izdatel'stva; AUZAN, N.P., tekhnicheskiiy redaktor

[A collection of papers on automatic and remote control; proceedings
of the Second and Third Scientific and Technical Conferences of
Young Specialists of the Institute of Automatic and Remote Control in
the Academy of Sciences of the U.S.S.R.] Sbornik robotov po avtomatike
i telemekhanike; trudy vtoroi i tret'ei nauchno-tekhnicheskikh kon-
ferentsii molodykh spetsialistov Instituta avtomatiki i telemekhaniki
Akademii nauk SSSR. Moskva, 1956. 287 p. (MLRA 9:11)

1. Akademiya nauk SSSR. Institut avtomatiki i telemekhaniki.
(Automatic control) (Remote control)

TSYPKIN, YA. Z., Dr. of Tech. Sci.

"Certain Problems of Dynamics of Regulation Systems and of Control With Digital Computing Installations" a paper presented at the Conference on Methods of Development of Soviet Mathematical Machine-Building and Instrument-Building, 12-17 March 1956.

Translation No. 596, 8 Oct 56

TSYPKIN, Ya. Z. Prof.

"The Synthesis of Pulse Systems for Automatic Regulation and Control," a paper read at the Convention on Control Technique, Heidelberg, 24-29 Sep 56

Inst. Automatics and Telemechanics, Moscow

Tsyppkin, Ya. Z.

USSR/Electrophysics - General Problems, I-1

Abst Journal: Referat Zhur - Fizika, No 12, 1956, 35237

Author: Tsyppkin, Ya. Z.

Institution: None

Title: On the Connection Between the Equivalent Amplification Coefficient of a Nonlinear Element and Its Characteristic

Original
Periodical: Avtomatika i telemekhanika, 1956, 17, No 4, 343-346

Abstract: An explicit relationship is derived between the equivalent complex amplification coefficient ("average transconductance") $\bar{H}(A)$ and the characteristic of a nonlinear element $F(x_1)$. For a symmetrical characteristic, an approximate equation was obtained

$$S(A) = \frac{2}{3A} \left[F(A) + F\left(\frac{A}{2}\right) \right],$$
 which was illustrated by a graph for cases of typical $F(x)$. More exact equations are also given for $S(A)$, as well as tables with the values $S(A, w)$ for certain nonsymmetrical characteristics, and a graphic method for obtaining $S(A)$ directly

Card 1/2

USSR/Electrophysics - General Problems, I-1

Abst Journal: Referat Zhur - Fizika, No 12, 1956, 35237

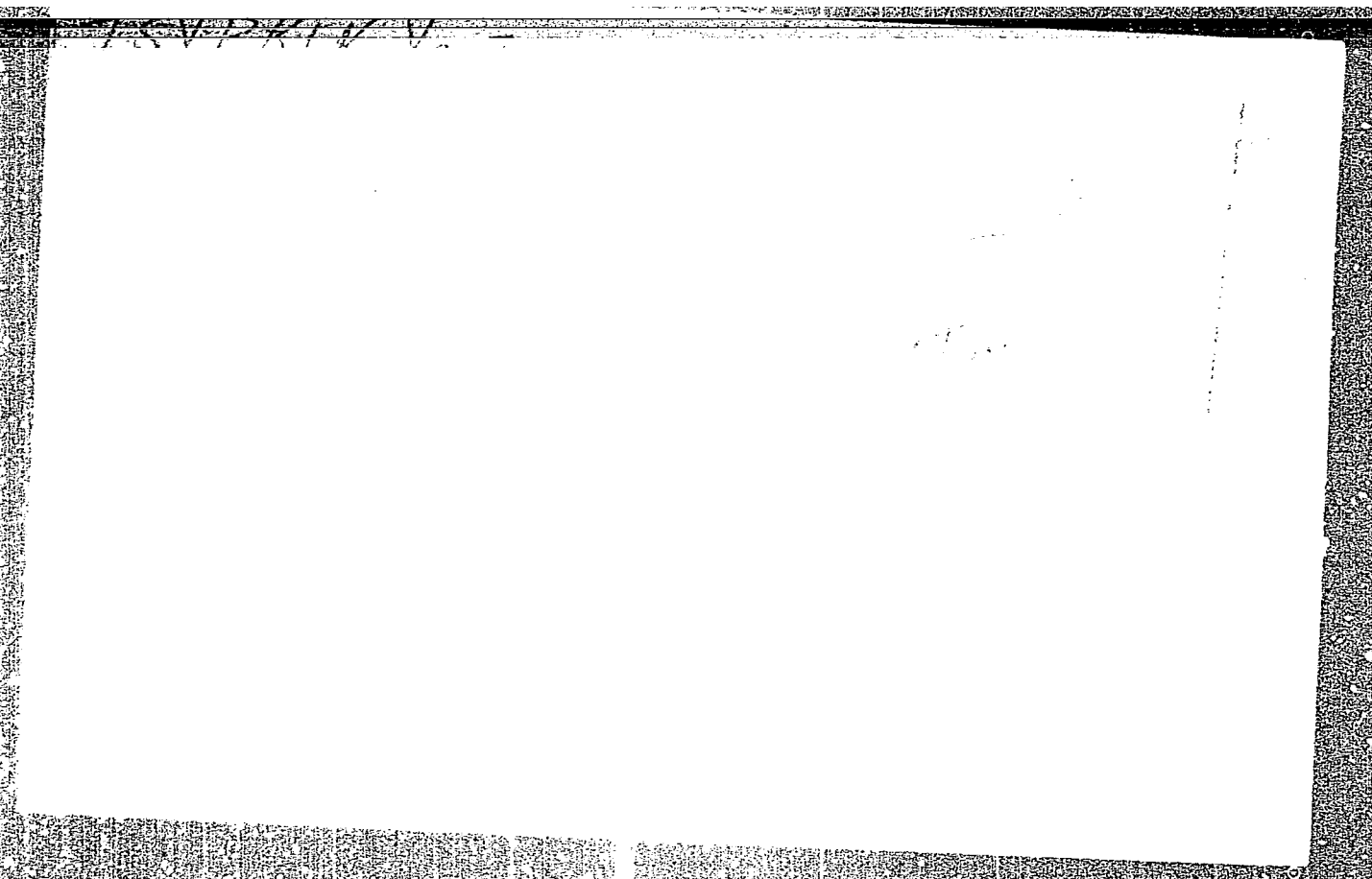
Abstract: from the $F(x)_1$ curve is indicated. All the results are obtained using V. A. Steklov's method for calculating the integral.

$$S_A = \frac{2}{\pi A} \int_1^{\pi} F(A \cos \psi) \cos \psi d\psi = \frac{2}{\pi A} \int_{-1}^1 \frac{F(Ay)y}{\sqrt{1-y^2}} dy, \text{ where } y = \cos \psi.$$

Card 2/2

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TSYPKIN, Ya.Z., (Moskva)

Automatic control systems containing digital computers.
Avtom. i telem. 17 no.8:665-679 Ag '56.

(MLRA 9:10)

(Automatic control) (Calculating machines)

TSYPKIN, Ya. Z

"Investigation of Steady-State Processes in Pulse Servosystems," by Ya. Z. Tsypkin, Moscow, Avtomatika i Telemekhanika, Vol 17, No 12, Dec 56, pp 1057-1069

The author presents an expression for the steady-state error of pulse systems. He describes various methods for computing error coefficients and investigates a steady-state process in the simplest pulse servosystem.

"Pulse servosystems are widely used in pulse engineering, radio location, and computer engineering."

Sum 1258

TSYPKIN, Y. Z., Institute of Automatics and Telemechanics, AS USSR, Moscow

"Some Problems on the Theory of Discrete Automatic Systems," a paper presented at the Conference on Computers in Control Systems, Atlantic City, N. J., 16-18 Oct 57.

C-3,800,407.

SOV/124-58-1-144
Translation from: Referativnyy zhurnal, Mekhanika, 1958, Nr 1, p 17 (USSR)

AUTHOR: ~~Tsy~~ypkin, Ya. Z.

TITLE: The State of the Art and Development Objectives of the Theory of Discrete-action Feedback Control Systems (Sostoyaniye i zadachi razvitiya teorii sistem avtomaticheskogo upravleniya diskretnogo deystviya)

PERIODICAL: Sessiya AN SSSR po nauchn. probl. avtomatiz. proiz-va, 1956, Vol 2. Moscow, AN SSSR, 1957, pp 233-253

ABSTRACT: Bibliographic entry

Card 1/1

TSYPKIN, Ya. Z.

~~TSYPKIN, Ya. Z.~~

Abstract processes in nonlinear automatic control systems.
Izv. Akad. Nauk SSSR Tekh. nauki no.1:72-104 '57. (MLRA 10:8)
(Automatic control)

TS'PKIN, Ya. Z. (Prof.)

"Condition and Problems of the Development of the Theory of Discrete Action Automatic Control Systems,"

paper read at the Session of the Acad. Sci..USSR, on Scientific Problems of Automatic Production, 15-20 October 1956.
Avtomatika i telemekhanika, no. 2, p. 182-192, 1957.

9015229

SOV/124-58-5-4992

Translation from: Referativnyy zhurnal, Mekhanika, 1958, Nr 5, p 7 (USSR)

AUTHORS: Tsyarkin, Ya.Z., Gol'denberg, L.M.

TITLE: How to Construct a Transient Process in Automatic Control Systems From the Characteristics of Their Separate Components (Postroyeniye perekhodnogo protsessa v sistemakh avtomaticheskogo regulirovaniya po kharakteristikam ikh otdel'nykh zven'yev)

PERIODICAL: Tr. Vses. zaochn. energ. in-ta, 1957, Nr 7, pp 90-106

ABSTRACT: A study is made of the problem of calculating approximately the time characteristics of closed linear systems by using transfer functions or using the time characteristics of the systems' individual components. According to the well-known formula of the theory of impulse control systems, a transition is accomplished from the continuous transfer function to a discrete transfer function. The relationship between the discrete values of the output and input values in a continuous system is written as a summation (the discrete weight function). The weight factors of this summation are equal to the coefficients of the expansion into a series of the discrete

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